

Name: _____

Period: _____ Table: _____

/ 30

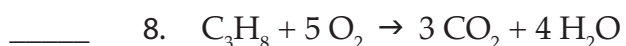
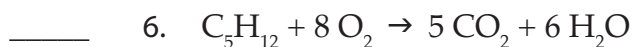
General Chemistry
7.7 Chemical Reactions
Test

Part A - Matching - In the space provided, match the Chemical Equation with the Type of Chemical Reaction.
[1 point each]

NOTE: Some Types may be used more than once some may not be used at all.

Types of Chemical Reactions:

- A Synthesis
- B Combustion
- C Decomposition
- D Single Replacement
- E Double Replacement



Part B - Fill-in-the Blank - Balance the following equations and check which Type of Reaction is occurring.
SHOW YOUR WORK! [3 points each]



Reactants	Products

- ☐ Synthesis
☐ Combustion
☐ Decomposition
☐ Single Replacement
☐ Double Replacement



Reactants	Products

- ☐ Synthesis
☐ Combustion
☐ Decomposition
☐ Single Replacement
☐ Double Replacement



Reactants	Products

- ☐ Synthesis
☐ Combustion
☐ Decomposition
☐ Single Replacement
☐ Double Replacement

Section C - Fill-in the Blank [1 point each]

In the space provided, write the Empirical Formulas for the following Molecular Formulas:

15. Aspirin - $C_{18}H_{16}O_8$ _____

16. Nicotine - $C_{10}H_{14}N_2$ _____

17. Polyethylene terephthalate - $C_{10}H_8O_4$ _____
(Pop Bottles)

18. Acetone - C_3H_6O _____

Section D - Fill-in the Blank [2 point each]

In the stable compounds below, identify the ionic charges and the subscripts.

Place the numbers in the spaces that correspond to the letters.

19. $Co^{(A)}Cl^{(B)}_{(C)}^{(D)}$ Cobalt (III) Chloride

_____ A

_____ B

_____ C

_____ D

20. $Mg^{(A)}O^{(B)}_{(C)}^{(D)}$ Magnesium Oxide

_____ A

_____ B

_____ C

_____ D

21. $K^{(A)}S^{(B)}_{(C)}^{(D)}$ Potassium Sulfide

_____ A

_____ B

_____ C

_____ D